9th 10th Chemistry Solved MCQs for SST BIO/Chem

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Chemistry SST / Bio / Chemistry can be separated by physical means, Chemistry (a) Mixture (b) Compound (c) Solution For Class 9th & 10th (d) Nit 19. Mixture has (a) 3 (b) 2 1 (d) No types 1. Atoms are made of sub 10. Which one is an example of heterogeneous misteres! (b) Molecules (a) Atoms (d) Atomic particles (a) lee cream (b) Concrete (c) Charges (c) Both a & b revolves in orbit around nucleus. (d) Nil (b) Proton 21. Salt & Water is a (a) Electron misture. (d) Nil (a) Hemogeneous (e) Neutrons (b) Heterogeneous 3. Electrons carry charge. (c) It is not mixture (d) Nil which occupies space and have men. (b) -(a) + (d) Double Positive (c) Neutral (a) Matter (b) Atom 4. Protons carry charge. (c) Molecule (d) All of above 23. The quantity of matter in a body is called (a) + (b) -(c) No (d) Neutral (a) Mass (b) Weight 5. Neutrons have (c) Atom charge. (a) + (b) -24. The period of Alchemists extends from *(c) No (d) Nil (a) \$00 to 1800 (b) 600 to 1660 6. Atom as a whole is (c) 900 to 1900 (d) 700 to 1700 (2) + (b) -25. At chemist invented all except: (d) Neutral (c) No (a) Beakers 7. The number of proton in an atom is called (b) Spirit lamp (c) Funnels (d) Retorts (b) Formula (a) Molecular 26. The branch of chemistry which deals with qualitative & (d) Molar (c) Atomic quantitative analysis of matter is: 8. The atomic number is represented by (a) Analytical (b) Nuclear (c) Biochemistry (d) Organic (d) Z 27. All the things in the world are made up of 2. The atomic number of sodium is (a) Mass (b) Weight (c) Matter(d) None of these (3) 9 is an example of substance. (c) 11 (d) 12(a) Carbon (b) Hydrogen 10. Number of protons + neutrons is: (c) Oxygen (d) Water (b) Mass numbers (a) Atomic mass is a pure substance that can be broken down (d) Nil (c) Both (a) Matter (b) Element 11. There are elements found till now. (d) Misture (c) Mass (a) 120 (b) 11# 30. The dead remains of animals are converted into (c) 119 (d) 117 (a) Hydrocarbons (b) Waste elements naturally occurring. (d) Nil (c) Does not change (a) 92 (b) 118 31. Mass no is represented by: (b) B (a) A 13. Elements are represented by chemical (c) C (d) D (a) Abbreviation (b) Unit times bervier that 32. One carbon is (c) Symbols (d) It can be represented hydrogen. 14. The symbol of sodium is: (a) 12 (b) 13 (a) Sa (b) Na (c) Pa (d) Ca (d) 15 (c) 14 15.A is a pure substance is made up of two or more clements. 33. An ion is a charged particle: (b) False (a) True (a) Mixture (b) Element (d) Never (c) In some conditions (c) Solumin (d) Compound of electrons. 34. Positive ions hare formed by can be decomposed into simpler substances. (b) Loss (a) Gain (a) Compound (b) Element (d) Bonding (c) Sharing (c) Solution (d) Mixture 35. Na - Na" + e', what type of ion it is: 17. The formula of benzene is (b) Negative (a) Positive (b) C,H4 (a) C.H.O. (d) Charged (c) Neutral (d) Nil. (c) CuHz KALEEM SERIES

ST/Bio/Chemist	solid form.		621
Flection	(b) Sometimes in	197. Silver is a	Chemistr
(a) in	(d) Always in	(a) Pure	metal,
(a) Moreting routed by	special chemical known	(c) None	(b) Noble
o films are detector	special chemical known as	198. Att are noble metals excep	(d) All
tagraphic	(b) Image	(a) Silver	t:
(2) Photographic	(d) Both	(c) Hadena	(b) Gold
(c) Nil	rofC =	199. Gold was most f	(d) Platinum
et CO: the paidante	(b) +2	199. Gold was used for utentils	as early as
(4)	(4) +4	(c) 3600	1h13500 NC.
(c) +3	101-4		25/2022
and the same same and and	ng.	metals are electri	(d) 3750 inegative in nature.
Transfer in the con-	270 75 NAMES OF THE	WORKS OF SA	(b) Noble+
	(d) None	(c) Non-	140.000
(c) Electronysis (3) Copper extracted from it	s are is % pure.	101. are important thu	thought of atmosphere.
(a) 98%	(b) 99%	(a) Oxygen	(b) Nitropen
(a) yard	(d) Nil	(c) Helium	(d) Both & & b
(c) 95%	part of earth on which	202. Reversible reaction is repri	riented by:
st Metals form a	part of earth on which	(c)	(h))
WE HYES	(b) Larger	203 2NO N	(4). 三
(a) Smaller	(d) Nil	203. 2NQ ₂ = N ₂₍₂₎ + O ₂₍₂₎ is	reaction.
(z) Medium		(c) Products	(b) Irreversible
	% of aluminum.	204. The unit of K, is.	(d) 24il
(1) 6	(b) 7	(a) Mol	at control
(c) 8	(d) 9	(c) No unit	(b) dm ⁴ (d) Nil
156. The earth is made up of	% of iron.	205. The second condition for es	(4) Still
(a) 4	(b) 5	(a) General	(b) Flow
(c) 6	(d) 7	(c) Simple	(d) Complex
157. The earth is made up of		206. An equilibrium establishes	when rate of forward reserve
(s) 4	(b) 5	becomebackw	ard reaction.
(c) 6	(d) 7	(a) =	(b) >
188. The core of the earth is	MARKET STATE	(c) <	(d) A
(a) Lighter	PER	207. He reacts with le and forms	2111 is a secondary
(c) Both	(h) Heavier	(a) Reversible	(b) Irreversible
189. Es is symbol of:	(d) Nil	(c) Forward	(d) Backward
(a) Erbium	14 Table 17 Table 18	208. Law of mass action was pre	sented by
/ T. Sec. 17	(b) Einsteinium	(a) Goldberg	(b) Wange
(c) Europium	(d) Fermium	(c) Both a & b	
190. The core of the earth is		209. Law of mass action was pre	sented in
(a) Nickel	(b) Iron	(a) 1884	(b) 1874
(c) a & b 191. Osygen is	(d) Copper	(c) 1864	(d) \$865
		210. Reversible reactions	go to completion.
(a) Metals	(b) Non-metals	(a) Goes	(b) Do not
(c) Gas	(d) b & c	(c) Always	(d) Sometimes
in a one of the follow	ring belongs to Noble Gases?	211. Reversible reactions are	(b) Fast
101 M	(b) F	(c) Slow	(d) Nil
In Ne	(d) Nil	212. Irreversible reaction goes to	
193.Hydrogen is a	Section 1	(a) End	(b) Completion
(a) Metal	(b) Non metal	(c) Final	(d) Nil
(c) Metalloids		213. Irreversible reaction is repr	escated by
Potassium's alomic no	Mee:	(a) -	(b) ← (d) ←
111100 100	(b) 18	(c) ≈ does not occur in irr	receible reactions.
14 19	(d) 20	(a) Union	(b) Intersection
155 la draws	in wires.	(c) Equilibrium	(d) None of these
> -1010		215. Liquid gas, is a	equilibrium.
(c) Matt	(b) Silver	(a) Chemical	(b) Harmonic
.75, Gold can only	(d) Nil	(c) Dynamic	(d) Nil
(a) Acids	neu by:	216. Law of man action was pre-	chemists.
let Aqua Regia	(b) Bases	(a) I	(b) 2 (d) 4
100	(d) Nil	(c) 3	ALEEM SERIES

- (a) Structure of atom*
- (b) Size of atom
- (c) Mass of atom
- (d) Reactivity of atom
- Thomson, 3.3. Goldstein, 14. Rutherford and Bohr proved that the atom is:
 - (b) Indivisible (a) Divisible *
 - (d) Unstable (c) Stable
- Who discovered protons? 15.
 - (a) Goldstein* (b) J.J. Thomson
 - (c) Bohr
- (d) John Dalton
- 16. electrons were In 1897. discovered by:
 - (a) Rutherford (b) J.J. Thomson*
 - (c) Newton (d) Bohr
- 17. According to plum pudding model, an atom is solid structure of positive charge with particles stuck inside it.
 - (a) Positive
- (b) Negative*
- (c) Free
- (d) Neutral
- 18. The rays which are emitted by cathode in a discharge tube when high voltage current is passed through it at a low pressure are called:
 - (a) Anode rays
 - (b) Canal rays
 - (c) Cathode rays*
 - (d) Neutrons
- 19. Which of the following element has no neutron in its nucleus?
 - (a) Oxygen
- (b) Nitrogen
- (c) Carbon
- (d) Hydrogen*
- According 20. to Rutherford's experiment, most space of an atom is empty because most particles the gold foll undeflected.
 - (a) Passed through*
 - (b) Settled in
 - (c) Bounced back
 - (d) Turned obliquely
- According to Bohr, energy of an 21. electron is:
 - (a) Continuous (b) Quantized *
 - (c) Increased (d) Unchanged
- When an electron jumps from a 22.

- lower to a higher orbit, it
- (a) Radiates
- (b) Decreases
- (c) Absorbs* (d) Loses
- 23. What Is value of Planck constant?
 - (a) 6.36×10⁻³¹Js(b) 6.63×10⁻³¹Js,
 - (c) 6.11×10⁻²⁸Js(d) 6.46×10⁻¹³Js
- According to Bohr, spectrum of as 24.
 - (a) Line spectrum *
 - (b) Broken spectrum
 - Continuous spectrum (c)
 - (d) Fixed spectrum
- The angular momentum of an 25. electron is given by the equation:
 - $mvr = nh/2\pi * (b) \frac{2\pi}{mvr nh}$
 - (c) mvr = 27/nh (d) mvr = nh = 2x
- Which letter is used to represent 26. 1st energy level which is closest to the nucleus?
 - (a) K#
- (b) L
- (c) M
- (d) N
- Which alphabets are used to 27. represent sub shells?
 - (a) a,b,c,d
- . (b) s,p,d,f*
- (c) g,h,l,j
- (d) w,x,y,z
- 28. Maximum capacity of a shell to accommodate electrons is given by the formula:
 - (a) 2n
- (b) n²
- (c) 2n²*
- (d) 3n2
- 29. The atomic number of oxygen is 8. What will be its electronic configuration?
 - (a) 1s2, 2s2, 2p1
 - 1s2, 2s2, 2p2 (b)
 - (c) 1s2, 2s2, 2p4 *
 - 1s2, 2s2, 2p3
- An electron first fills 2p orbital 30. before 3s orbital because 2p orbital has:
 - (a) Higher energy level
 - (b) Lower energy level*
 - (c) More number of electrons
 - (d) Greater distance from nucleus
- An element has 5 electrons in M 31.

est/Bio/Chemistry which of the following metals	Chemistry
which of the following metal	(h) Covalent
	(c) Coordinate covalent
37- floats on Water (b) Calcium	(d) Metallic
(a) Ion (b) Calculum (c) Sodium* (d) Magnesium	49. Purity of gold is shown by:
the following is ton	(a) Carats* (b) Ounces
	(c) Pounds (d) Grams
There is a second to the secon	50. Which non metal is found in the
(c) Gold (d) Silver	
Tale Of Life	crust?
SY Instrough	(M) 43 CEST M
יין קטומחטו (בין ייון	(c) Nitrogen (d) Oxygen *
(c) lodine* (d) Carbon	IMPORTANT TERMINOLOGY
	IMPORTANT TERMINOLOGY
act With Blidte action	A
(a) Iodine* (b) Sodium	917
potassium (d) Calcium	Acceleration: Rate of change of velocity
nenelty of calcium is:	with time.
(a) 0.980cm (b) 1.74gcm	Artificial satellites: Man made objects
(a) 1.550cm ⁻³ * (d) 1.60gcm ⁻³	moving in fixed circular orbits around the
a war agint of magnesium is:	Earth.
(a) 880°C (b) 1484°C	Atomic Physics: The branch of Physics that
(d) 1090°C*	deals with the study of the structure and
to telement to 11th	properties of atoms.
group?	Avis of rotation: A straight line passing
(a) Gold* (b) Zinc	through the points of a rotating rigid body
(c) Chrmium (d) Borium	while the other points of the body move in
4. The stability of hydrides is in the	circles about the axis.
order:	В
(a) HI> HCL> HBr> HF	Base quantity: A quantity, which can be
(b) HI> HBr> HCI> HF	expressed independently without the
(c) HF> HCI> HBr> HI*	reference of any other quantity.
(d) HBr> HCI> HI> HF	Base units The units that describe base
5. %age of carbon in human body is:	quantities.
(a) 65% (b) 17%*	Buoyant force: The force acting on an
	object due to buoyancy of a liquid.
	object due to adoyancy or any
ni nalogens are:	
(a) Reducing agents	Centre of gravity: The point of a boay
(b) Oxidizing agents*	where its weight dels.
(c) Metals	a malet where an applied
7. Semi-metals	force causes the system to move without
Flourine reacts with water:	
(a) In sunlight	contributed force: Centripetal reaction.
(b) At high temperature	Centripetal acceleration: Acceleration
in dark and cold state+	produced by the centripetal force.
Al room temperature	produced by the central which keeps
to and sailed	Centripetal force: The force, which keeps
- Contract C	an object to move in a circular path.
(a) Ionic*	OPPLES.

Circular motion: Motion of a body along a circular path

Coefficient of linear expansion: Change in unit length caused by unit kelvin change in temperature.

Coefficient of volume expansion: Change in unit volume caused by unit kelvin change in remperature.

Components of a force: Such forces when added give the resultant force.

Conduction: Transfer of heat due to interaction of electrons or molecules.

Couple: When two equal and unlike parallel forces act at different points of a body, they constitute a couple.

D

Deceleration: Negative acceleration.

Density: Mass per unit volume.

Derived quantity: Such quantity which is expressed with reference to base quantities.

Derived units: The units used to measure derived quantities.

Displacement: The shortest distance between two points.

Distance: Length of a path between two points.

Dynamics: Study of motion of bodie under the action of forces.

E

Efficiency: Ratio of output and input.

Effort arm: The intermediate distance between fulcrum and effort.

Effort moment: Product of effort and effort arm.

Effort: Force applied on the machine.

Elastic potential energy: Energy of a compressed or stretched spring.

Electromagnetism: The branch of Physics that deals with the study of the charges at rest and in motion, their effects and their relationship with magnetism.

Energy: Ability of a body to do work.

Equilibrium: A state where acceleration of a body is zero.

Evaporation: The changing of a liquid into vapours from the surface of the liquid without heating it.

F

Field force: The gravitational pull of the Earth acting on the body whether the body is in contact with the Earth or not.

Force of gravitation: The force due to which everybody of the universe attracts every other body.

Force: The agent that changes or tends to change the state of a body.

Friction: The force of resistance against the relative motion between two surfaces.

Fulcrum: The point around which lever revolves.

G

Geophysics: The branch of Physics that deals with the study of the internal structure of the Earth and tectonic plate motions etc.

Gravitational acceleration: Acceleration due to gravity of the Earth

Gravitational field strength: The gravitational force per unit mass.

Gravitational field: The field in a region in space in which a particle would experience a gravitational force.

Gravitational force: Mutual force of attraction between the objects.

Gravitational potential energy: Energy of a body due to its position in the gravitational field.

н

Heat capacity: The quantity of thermal energy absorbed by a body for increase in its temperature.

Heat: The branch of Physics that deals with the nature of heat, modes of transfer of heat and effects of heat.

Heat: The form of energy, which is transferred from one place to another because of temperature difference.

Horizontal component: The component of a force which is along horizontal Or x direction.

Chemistry

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Inertia: The characteristic of a body due to which it resists against any change in its state of rest or motion.

Input: A work, which is done on the machine Internal energy: The sum of K. E. and P. E. associated with the atoms, molecules and particles of a body.

Isolated system: A group of interacting bodies on which no force is acting.

Joule: The amount of work done when a force of one newton displaces a body through one metre in the direction of force.

Kllowatt-hour: Work done in one hour at a rate of one kilowatt.

Kinematics: Study of motion of bodies without taking into consideration the mass and forces.

Kinetic energy: Energy of a body due to its motion.

Kinetic friction: Friction during motion.

Latent heat of fusion: The quantity of heat required to change one kilogram of a solid substance to liquid state during which its temperature remains constant.

Latent heat of vapourization: The quantity of heat required to change the state of one kilogram of a liquid to vapour or gaseous state during which its temperature remains constant.

Lever: A strong bar revolving around some point.

Light year: The unit of distance for celestial bodies equal to 9. 46 x 1014 m.

Light: The branch of Physics that deals with the physical aspects of light and its properties; working and uses of optical instruments.

Like parallel forces: Forces acting along parallel lines in the same direction.

Limiting friction: The maximum value of static friction.

Line of action of a force: The line along which a force acts.

Linear motion: The motion of a body along a straight line.

Load arm: The intermediate distance between fulcrum and load.

Load moment: Product of load and load

Load: Resistance or lifted up weight.

M

Mass: The characteristic of a body, which determines the acceleration produced by the application of a force.

Mechanical advantage: Ratio of load and effort.

Mechanics: The branch of Physics that deals with the motion of objects, causes and effects of motion.

Moment arm: The perpendicular distance between the axis of rotation and the line of action of the force.

Momentum: The product of mass and velocity of a body.

Motion: If a body changes its position with respect to its surroundings.

Negative vector: A vector, which has the same magnitude but opposite direction of another vector.

Neutral equilibrium: The condition of a body, in which its centre of gravity neither rises nor becomes lower of its original position after being disturbed.

Nuclear physics: The branch of Physics that deals with the properties and behaviour of nuclei and the particles within the nuclei.

Orbital velocity: The critical velocity of a satellite in order to keep on moving around the Earth at a specific height.

Output: A work, which is done by the machine.

Parallel force: The forces which are parallel to each other.

Chemistry

Perpendicular components: The components of a force which are mutually perpendicular to each other.

Physical quantities: All measureable quantities.

Physics: The branch of Science, which explains the properties of matter and energy.

Plasma physics: The branch of Physics that deals with the study of production, properties of the ionic state of matter - the fourth state of matter.

Position: Location of a place or a point with respect to some reference point.

Potential energy: The energy possessed by a body due to its position.

Power: Rate of doing work.

Prefixes: The words or letters added before a unit and stand for the multiples or submultiples of that unit.

Pressure: The force acting normally per unit area.

R

Radiation: Transfer of heat by Infra red radiations requiring no medium for their transmission.

Random motion: Motion without any consideration of time and direction.

Rate of flow of heat: The amount of heat that flows in unit time.

Resolution of a force: Splitting up of a force into its components.

Rest: If a body does not change its position with respect to its surroundings.

Resultant force: Such a force, which shows the combined effect of two or more forces.

Retardation: Negative acceleration.

Rolling friction: The friction produced during the motion of one body over the other with the help of wheels.

Rotatory motion: The motion in which a body moves around an axis passing through it.

S

Scalar: A Physical quantity which is completely described by its magnitude only.

Scientific method: Logical applications of arguments that explain a certain phenomenon.

Scientific notation: The numbers written as power or prefix of ten in which there is only one non-zero number before the decimal

Significant figures: In a measurement, the correctly known digits and the first doubtful digit

Simple machine: A thing, which helps in doing work more easily.

Sliding friction: The friction between two surfaces sliding against each other.

Sound: The branch of Physics that deals with the physical aspects of sound waves their production, properties and applications.

Specific heat capacity: The quantity of heat, which changes the temperature of one kilogramme mass by 1 K.

Speed: Distance covered by a body in unit time.

Stability: The property of a body which does not undergo any change without the application of an external agency.

Stable equilibrium: The condition of a body in which it comes to its original position after being disturbed.

Static friction: The force of friction arising due to an applied external force before motion.

Strain: The change in the shape of an object under the action of an external force.

Stress: Force acting on unit area of an object.

Surface tension: The force acting along the surface of a liquid.

T

Temperature: The degree of hotness or coldness of a body.

Tensile strain: Change in length per unit original length.

Tension: The force acting along a string.

Thermal conductivity: The rate of flow of heat across the opposite faces of a metre cube maintained at a temperature difference of 1 K.

SST/Bio/Chemistry

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Chemistry

thermal equilibrium: The property of a thermal when all parts of the system have the system when the along with its surrounding.

Thermometer: A device used to measure temperature.

thermometry: Art of measurement of

, lemperature. Torque: The capacity of a force to rotate a

franslatory motion: The motion of a body body. when it moves along a line without rotation.

Trigonometric ratios: The ratios of the ides of a right-angled triangle.

uniform acceleration: Equal changes in velocity in equal intervals of time.

uniform speed: Equal distances covered by a body in equal Intervals of time.

uniform velocity: Equal changes in displacement in equal intervals of time,

Unlike parallel forces: Forces that are parallel but have direction opposite to each other.

Unstable equilibrium: The condition of a body in which it does not come to its original position after being disturbed.

Vector: A physical quantity which is described completely by magnitude and direction.

Velocity: Rate of change of displacement.

Vibratory motion: Zig-zag motion of the molecules of gases and liquids.

Watt: The power of a body if it does work at the rate of one joule per second.

Weight: Force of gravitation acting on a

Work: The displacement. product of force and

Young's modulus: The ratio of stress to

CHEMICAL EQUILIBRIUM IMPORTANT POINTS

- Reversible reactions are those in which products recombine to form reactants. These reactions never complete. They proceed in both ways: l. e., forward and reverse.
- Dynamic equilibrium state is one at which forward and reverse reactions proceed at equal rate but in opposite directions so that overall reaction does not stop.
- Equilibrium constant K, is a ratio of × the product of concentration of products raised to the power of coefficients to the product of concentration of reactants raised to the power of coefficients as expressed in the balanced chemical equation.
- Equilibrium constant has no units when number of moles of reactants and products are same.
- By knowing the value of equilibrium constants, the extent of a reaction can be predicted.
- Reactions having large Ke value, proceed almost to completion.
- Reactions having small magnitude of Ke indicates that equilibrium state has established consuming small amount of reactants. Therefore, they never go to completion.
- Reactions having moderate magnitude comparable amounts reactants and products at equilibrium state.

MCQ5

- The characteristics of reversible 1. reactions are the following except:
 - (a) products never recombine to form reactants*
 - (b) they never complete
 - (c) they proceed in both ways
 - (d) they have a double arrow between reactants and products
- In the lime kiln, the reaction 2. $CaCO_{3(s)} \longrightarrow CaO_{(s)} + CO_{2(g)}$ goes to completion because

331/	Bio / Chemistry		Chemist
	(a) salt and water*	1	(b) BE.
	(b) salt and gas	1	(C) H:
	(c) salt and an acid	59,	ACCORDING to the tour
	(d) salt and a base		
50.	The conjugate acid of HPO ₄ 3- in:	1	(a) donate a proton
	(a) PO.3- (b) H,PO.2-	1	(b) donate a pair of electron
	(c) H ₂ PO ₄ * (d) H ₃ PO ₄		(c) accept a proton
51	What is the pOH of 0.02M		(d) accept a pair of electron *
	Ca(OH) ₂ 7	60.	Section 15 March 15 M
	(a) 1.698 (b) 1.397*	1	20 0123 6
25717	(c) 12.31 (d) 12.61		What is the concentration of H'
52.	Which one of the following species		bute water at 25°C7
1	Is not amphoteric?	1	(a) 1 × 10.7 mol dm ⁻³ *
	(a) H ₂ O (b) NH ₃		(b) 1 × 10 ⁷ mol dm ⁻³
	(c) HCO ₃ (d) SO ₄ ² -*	1	(c) 1 × 10 ⁻¹⁴ mol dm ⁻¹
53.	The product of Lewis acid-base	1	(d) 1 × 10 ¹⁴ mol dm ⁻³
	reaction is called adduct. The bond	10	ODCANIZA CHIZATANIA
	between the adduct specie is:	-	ORGANIC CHEMISTRY
	(a) ionic		IMPORTANT POINTS
	(b) covalent	*	Strong acids or bases ioniz
	(c) metallic	8073	Strong acids or bases ioniz completely in water while weak acid
*****	(d) coordinate covalent*		and bases ionize partially.
54.	The water of crystallization is	*	According to Arrhenius concept, acid
	responsible for the	101 200	produce H* ions in aqueous solution
	(a) melting points of crystals		while bases produce OH" ions in
	(b) boiling points of crystals		aqueous solution.
	(c) shapes of crystals*	*	According to Bronsted-Lowry concept
-	(d) transition point of crystals	1	acid are proton donor and bases are
55.	You want to dry a gas. Which one	1	proton acceptor, so this concept is
	of the following salt you will use?	1	applicable to non-aqueous solutions.
12	(a) CaCl ₂ * (b) NaCl	*	A substance that can behave as a
	(c) CaO (d) Na ₂ SiO ₃ Ferric hydroxide (Fe(OH) ₂) is		acid as well as base depending upon
56.	Ferric hydroxide (Fe(OH) ₃) is precipitated out of solution when	1	the nature of other substances is called amphoteric.
	aqueous sodium hydroxide	1	
	solution is added to ferric chloride	*	According to Lewis concept; acids an electron pair acceptors and bases are
	(FeCl ₃).		electron pair acceptors and bases and electron pair donors.
	FeClates + 3NaOH(se) Fe		
	$(OH)_{Xx} + 3NaCl_{(xq)}$	*	The product of any Lewis acid base reaction is a single specie called
	Colour of the precipitate is:		adduct.
	(a) white (b) blue		"p" scale is the conversion of ven
	(c) dirty green (d) brown*	*	small figures into positive figures 5
57.	Which ion is the conjugate base of sulphuric acid?		small figure and multiplying it with-1.
	(a) SO ₃ 2. (b) S2-	2	pH scale is the negative logarithm o
	(c) HSO ₃ (d) HSO ₄ *	-	concentration of hydrogen ions.
58.	Which one of the following is a	1.2.	a substance having pH less than 7 is
	Lewis base?	100	acidic while a substance having pt

-TI	Bio / Chemistry			64	1504
551	than 7 is be	sic. A	substance of	8.	Chemistry
	pH 7 is called neuti	ral.	(1925.77)		Petroleum is refined by:
	salts are lonic com		s made up of		unstructive distillation
	metallic cation and	non-n	netallic anion.		(actional distillation to
	Different methods				15) Simple distillation
	of soluble and in	soluble	e saits have		(9) gry distillanta-
	been discussed.		and the same	9.	In laboratory urea was prepared
	Normal salts are in	ade ur	of rations of	1	
	strong bases and	anior	is of strong		(a) Wholer +
	acids.	×111575510374	35, 41, 55, 61,19		(b) Rutherford
	Acidic salts are ma	rde un	of cations of		(c) Berzellius
	weak bases and	anion	s of strong	14.00	(d) Dalton
	acids.	dinon	s or scroling	10.	General formula of alkyl radical is:
	MCQs				(a) C _h H _{2n+2} (b) C _h H _{2n-2}
1.	The ability of o	carbor	atoms to		(c) C _n H _{2n+1} * (d) C _n H ₁
	form chains is cal	led		11.	Identify which one of the
	(a) isomerism			l	following compounds is a ketone.
	(b) catenation*				(a) (CH ₃) ₂ CHOH
	(c) resonance				(b) (CH ₃) ₂ CO*
	(d) condensation			200	(c) (CH ₃) ₂ NH
2.	Coal having 90%	carb	on contents		(d) (CH ₃)₂CHCl
10	is called:			12.	The functional group -COOH is
	(a) peat				found In:
	(b) lignite				(a) carboxylic acid*
	(c) anthracite *				(b) aldehydes
	(d) bituminous				(c) alcohols
3.	Main component	of nat	ural gas is:	ace.	(d) esters
	(a) methane*	(b)	propane	13.	Which one of the following
	(c) butane	(d)	propene	1241	statements is not true about fossil fuels?
4.	The strong hea				(a) they all contain carbon
	retorts in the a	bsenc	e of air is	l	(b) they are renewable*
	called		117		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	(a) fractional disti	llation			(c) they produce pollutants when burnt
	(b) sublimation				(d) they cause acid rain
	(c) roasting			14.	Which one of the following is the
5.	(d) destructive dis	stillatio	n*	2-7.	hardest coal?
-	Pitch is black resi	due o	f:		(a) peat
	(a) coke	(b)	coal tar*		(b) fignite
6,	(c) coal	(4)	coal gas		(c) bituminous
	Natural gas is 85	6/	thane. It is		(d) anthracite*
	to make the	•	9704	15.	In which of the following groups,
	(a) Carbon black+	(b)	coke	201	oxygen is attached on both sides
7.	Coal tar	2 -4 3	coal gas	1	with carbon atoms?
	Which one of th		owing does		(a) ketone (b) ether*
		h:	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANSPO		(c) aldehyde (d) ester
	(a) Sugar cane *	(b)	maize	16.	Carbonization process is the
-	(c) barley	(d)	potatoes	200.701	conversion of:

alkenes. They have general formula

KALEEM SERIES

44.

45.

46.

47.

48.

49.

50.

51.

52.

53.

54.

(a) Paraffins

water to give:

formula of

(c) Ketones

connected

(a) Alkenes

(a) Ethane

(c) Ethyne

Benzene is a

(a) Aliphatic

(c) Cyclic*

(a) Alkane

(c) Alkyne*

(c) Coal gas

(a) Alkanes

(c) Alkynes

Darkness

Alkyl hallde

Aldehyde

form:

(c)

(a)

(b)

(c)

(d)

(c) Alkanes*

Which

bond?

fuel?

(b) Carbon dioxide (c) Oxygen* Ozone hole is a place where ozone (d) Produced (a) Depleted* (b) Produced (c) Thinned (d) Reduced (c) Thinned (d) Reduced (d) Infrared radiations (e) Ultraviolet radiations (foreinhouse radiations (g) Greenhouse radiations (h) The percentage of Oxygen in atmosphere by volume is: (a) 18.94% (b) 17.67% (c) 20.94%* (d) 16.67% 48. Ozone is represented by: (a) O2 (b) O (c) CO (d) O3* 49. Mixture of NO and NO2 are represented by: (a) NO.* (b) N.O. (c) N.O. (c) N.O. (d) NO. 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	56. 57. 58.	(a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(b) Carbon dioxide (c) Oxygen* (d) Oxygen* (d) Ozone hole is a place where ozone Joane protects (b) Produced (c) Thinned (d) Reduced (c) Thinned radiations (a) Infrared radiations (b) Ultraviolet radiations* (c) Bluetooth radiations (d) Greenhouse radiations (d) Greenhouse radiations (d) Greenhouse radiations (e) Household (d) 17.67% (f) 18.94% (g) 18.94% (g) 17.67% (g) 18.94% (g) 16.67% (g) 20.94%* (h) 16.67% (g) 20.94%* (h) 0 (g) CO (g) CO (g) CO (h) O (g) CO (h) O (g) CO (h) O (g) CO (h) O (g) No	57. 58.	(c) NO ₃ gas (d) SO ₃ gas PAN is the abbreviation of: (a) Poly aniline nitrate (b) Peroxy acetyl nitrate* (c) Poly acetyl nitrate (d) Proxy acetyl nitrite After mesosphere, the layer of atmosphere is: (a) Thermosphere* (b) Lithosphere (c) Stratosphere (d) Blosphere Naturally, sulphur compounds are emitted in: (a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(b) Carbon dioxide (c) Oxygen* (d) Oxygen* (d) Oxygen* (d) Produced (a) Depleted* (b) Produced (c) Thinned (c) Thinned (d) Reduced (c) Infrared radiations (a) Infrared radiations (b) Ultraviolet radiations* (b) Greenhouse radiations (d) Greenhouse radiations (d) Greenhouse radiations (a) 18.94% (b) 17.67% (c) 20.94%* (d) 16.67% 48. Ozone is represented by: (a) O2 (b) O (c) CO (d) O3* 49. Mixture of NO and NO2 are represented by: (a) NO.* (b) N.O. (c) N.O. (c) N.O. (d) NO. 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of Insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	57. 58.	PAN is the abbreviation of: (a) Poly aniline nitrate (b) Peroxy acetyl nitrate* (c) Poly acetyl nitrate (d) Proxy acetyl nitrite After mesosphere, the layer of atmosphere is: (a) Thermosphere* (b) Lithosphere (c) Stratosphere (d) Blosphere Naturally, sulphur compounds are emitted in: (a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
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(a) Depleted* (b) Produced (a) Thinned (d) Reduced (c) Thinned (d) Reduced (c) Infrared radiations (a) Infrared radiations* (b) Ultraviolet radiations* (c) Bluetooth radiations (d) Greenhouse radiations (d) Greenhouse radiations (d) Greenhouse radiations (e) 18.94% (b) 17.67% (f) 20.94%* (d) 16.67% (g) 20.94%* (d) 16.67% (g) 02 (b) 0 (g) (c) (c) (d) 03* (e) (c) (d) 03* (f) No.* (f) No. (g) No.* (g) No. (g) No. (g) No.* (g) No. (g)	58. 59.	(b) Peroxy acetyl nitrate (c) Poly acetyl nitrate (d) Proxy acetyl nitrite After mesosphere, the layer of atmosphere Is: (a) Thermosphere* (b) Lithosphere (c) Stratosphere (d) Blosphere Naturally, sulphur compounds are emitted in: (a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
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(a) Thinned (d) Reduced (c) Thinned (c) Thinned (c) Infrared radiations (a) Infrared radiations (b) Ultraviolet radiations (c) Bluetooth radiations (d) Greenhouse radiations (d) Greenhouse radiations (d) Greenhouse radiations (e) Greenhouse radiations (f) Greenhouse radiations (h) The percentage of Oxygen In atmosphere by volume is: (a) 18.94% (b) 17.67% (c) 20.94%* (d) 16.67% (d) 16.67% (e) Ozone is represented by: (a) O2 (b) O (c) CO (d) O3* (c) CO (d) O3* (d) NO,* (e) N,O,* (d) NO,* (f) N,O (f) N,O,* (d) NO,* (g) NO,* (g) NO,* (g) NO,* (h) NO,	58. 59.	(d) Proxy acetyl nitrite After mesosphere, the layer of atmosphere Is: (a) Thermosphere * (b) Lithosphere (c) Stratosphere (d) Blosphere Naturally, sulphur compounds are emitted in: (a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(c) Thinned Ozone protects us from: Infrared radiations (a) Infrared radiations (b) Ultraviolet radiations (c) Bluetooth radiations (d) Greenhouse radiations (d) Greenhouse radiations (e) The percentage of Oxygen in atmosphere by volume is: (a) 18.94% (b) 17.67% (c) 20.94%* (d) 16.67% 48. Ozone is represented by: (a) O2 (b) O (c) CO (d) O3* 49. Mixture of NO and NO2 are represented by: (a) NO.* (b) N.O. (c) N.O. (d) NO. 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	58. 59.	After mesosphere, the layer of atmosphere is: (a) Thermosphere* (b) Lithosphere (c) Stratosphere (d) Blosphere Naturally, sulphur compounds are emitted in: (a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(c) Infrared radiations (a) Infrared radiations (b) Ultraviolet radiations (c) Bluetooth radiations (d) Greenhouse radiations (d) Greenhouse radiations (d) Greenhouse radiations (e) The percentage of Oxygen In atmosphere by volume is: (a) 18.94% (b) 17.67% (c) 20.94%* (d) 16.67% (d) 02 (e) 0 (e) CO (d) 03* 48. Ozone is represented by: (a) 02 (b) 0 (c) CO (d) 03* 49. Mixture of NO and NO2 are represented by: (a) NO.* (b) N.O. (c) N.O. (d) NO. 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere (d) Lithosphere 51. The separation of Insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	58. 59.	atmosphere Is: (a) Thermosphere * (b) Lithosphere (c) Stratosphere (d) Blosphere Naturally, sulphur compounds are emitted in: (a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
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atmosphere by (a) 18.94% (b) 17.67% (c) 20.94%* (d) 16.67% (e) CO (e) CO (f) CO (f) CO (g)	1526	(a) Bacterial decay* (b) Gas exhausts (c) Industries (d) Tanning leather Decreased ozone layer will Increase Infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
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(c) Zone is represented by: (a) O ₂ (b) O (c) CO (d) O ₃ * 49. Mixture of NO and NO ₂ are represented by: (a) NO ₄ * (b) N ₄ O (c) N ₄ O ₄ (d) NO ₅ 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere (c) Mesosphere (d) Lithosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1526	(c) Industries (d) Tanning leather Decreased ozone layer will Increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(a) O ₂ (b) O ₃ * (c) CO (d) O ₃ * 49. Mixture of NO and NO ₂ are represented by: (a) NO ₈ * (b) N ₈ O (c) N ₈ O ₈ (d) NO ₈ 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1526	(d) Tanning leather Decreased ozone layer will Increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(a) O ₂ (c) CO (d) O ₃ * 49. Mixture of NO and NO ₂ are represented by: (a) NO ₂ * (b) N ₂ O ₃ (c) N ₂ O ₄ (d) NO ₅ 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1526	(d) Tanning leather Decreased ozone layer will Increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(c) CO Mixture of NO and NO2 are represented by: (a) NO.* (b) N.O. (c) N.O. (d) NO. 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1526	Decreased ozone layer will Increase infectious diseases like: (a) Malaria* (b) Typhoid (c) Pneumonia (d) None
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represented by: (a) NO,* (b) N,O (c) N,O, (d) NO, 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	60.	(a) Malaria* (b) Typhoid (c) Pneumonia (d) None
(a) NO.* (b) N.O. (c) N.O. (d) NO. 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of Insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	60.	(c) Pneumonia (d) None
(c) N _c O _* (d) NO _* 50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	60.	
50. Ozone layer is found in: (a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	00.	nue to increase in earti
(a) Troposphere (b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of Insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1	to green house
(b) Stratosphere* (c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	I.	effect, this phenomenon is called:
(c) Mesosphere (d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1	(a) Global warming *
(d) Lithosphere 51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1	(b) Global crisis
51. The separation of insoluble solid particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1	(c) World war
particles from a liquid is called: (a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*		(d) Rotational debt
(a) Distillation (b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	1	3.57
(b) Crystallization (c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*		WATER
(c) Filtration* (d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	li .	IMPORTANT POINTS
(d) Evaporation 52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	V	
52. The harmful substances present in the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	*	Atmosphere is the envelope to
the air are called: (a) Contaminants (b) Land pollutants (c) CFCs (d) Air pollutants*	8	different gases around the Earth.
(b) Land pollutants (c) CFCs (d) Air pollutants*	*	Atmosphere is divided into for
(b) Land pollutants (c) CFCs (d) Air pollutants*	12	troppsphere, Stratosphere
(c) CFCs (d) Air pollutants*	(S	mesosphere and thermosphere.
(d) Air pollutants*	*	to test above Earth
		surface and extends upto 1
identify the encondary politicant.		Ullometre.
(a) H ₂ SO ₄ (b) SO ₂	1	to troposphe
(c) NH. (d) CO.	*	Stratosphere is next to the in the and extends upto 50 km. In the
		region, temperature rises upware
Acid rain damages:	1	The state of the s
(a) Leaves of trees (b) a, c & d*		the market of presence of order
Ss. (c) Crops (d) Buildings Rain water is acidic because of:		because of presence of ozone layer. Mesosphere is next to stratosphere and extends up to 85 km

Chemistry

- (b) Long chain sulphonic acid esters
- (c) Polymeric hydrocarbons
- (d) Polymeric aldehydes
- 353. In fireworks, the green flame is produced because of:
 - (a) Mercury
- (b) Sodium
- (c) Potassium
- (d) Barium*
- 354. Firdous Al Hikmat Fe Ilmul Kemia was written
 - (a) Alberuni
 - (b) Jabir bin Haiyan
 - (c) Khalid bin Yazeed*
 - (d) Buall Sina
- 355. Ammonia was obtained from urine by
 - (a) Aljahiz
- (b) Wohler*
- (c) Jabir bin Haiyan (d) Al-Beruni
- 356. Madam Curie is famous for his work in the field of
 - (a) Biochemistry
 - (b) Nuclear chemistry *
 - (c) Analytical chemistry
 - (d) Organic chemistry
- 357. Which form of phosphorus is used in safety matches?
 - (a) White phosphorus
 - (b) Yellow phosphorus
 - (c) Red phosphorus*
 - (d) Black phosphorus
- 358. Dalton's atomic theory gave the concept of
 - (a) Valency*
- (b) Electrons
- (d) Ionization
- 359. When radioactive rays are passed through air (c) Radioactivity or any gas, they cause it to
 - (a) Ionize*
- (b) Evaporate
- (d) Boil
- 360. The elements in the first period of the periodic table are
 - (a) Hydrogen and helium *
 - (b) Hydrogen, helium, nitrogen and oxygen
 - (c) Hydrogen, helium and carbon (d) Hydrogen, nitrogen and oxygen

IMPORTANT TERMINOLOGY

Acld rain is formed by dissolving acidic air pollutants such as sulphur dioxide and nitrogen dioxide by rain water.

Acidic salts are formed by partial replacement of a replaceable H' ion of an acid by a positive metal ion.

Alkanes are the simplest hydrocarbons in which each carbon is attached through single bonds with other atoms. They have general formula CoHzneze

unsaturated hydrocarbons Atkenes are having double bonds. They have general formula CoHzon

Alkyl radicals are derivatives of alkanes. They are formed by the removal of one hydrogen atom from molecule.

an alkane

Alkynes are unsaturated hydrocarbon having a triple bond in their molecules. They have general formula CnH2n-2

Amino acids are organic compounds consisting of both amino and carboxyl groups.

Ammonical Liquor is a solution of ammonia gas in water.

Amphoteric is a substance that can behave both as an acid and as a base.

Arrhenius acid is a substance that contains hydrogen and produces H* lons in aqueous solution.

Arrhenius base is a substance that contains the hydroxyl group and produces hydroxide OH ions in aqueous solution.

Atmosphere is the envelope of different gases around the Earth. It extends continuously from the Earth's outwards without any boundary.

Basic saits are formed by the incomplete neutralization of a polyhydroxy base by an

Bronsted-Lowry base is a substance that can accept a proton from another substance.

about 85% is methane, other gases are ethane, propane and butane.

Normal salts are formed by the total replacement of ionizable H* ions of an acid by a positive metal ion or NH,* lons.

Oligosaccharides give 2 to 9 units of monosaccharides on hydrolysis

Ore is a natural deposit containing mineral of an element to be extracted.

Organic compounds are compounds of carbon and hydrogen and their derivatives.

Ozone hole is the region in which ozone layer depletes in atmosphere.

Ozone is an allotrope of oxygen. Its maximum concentration called ozone layer lies in stratosphere region about 25 to 30 km away from Earth's surface.

Permanent hardness is because of presence of sulphates and chlorides salts of calcium and magnesium.

Pesticides are dangerous organic chemicals used to kill or control pests.

Petroleum is a dark brownish or greenish black coloured viscous liquid.

pH is the negative logarithm of molar concentration of the hydrogen ions.

Pollutants are waste materials that pollute air, water or soil.

Polysaccharides are the carbohydrates consisting of hundreds to thousands of monosaccharides.

Primary pollutants are the waste or exhaust products drivenout because of combustion of fossil fuels and organic matter. Proteins are highly complicated nitrogenous compounds made up of amino acids.

R

Reduction means addition of nascent hydrogen.

Refining process is the separation of crude oll mixture into various useful products (fractions). It is carried out by a process called fractional distillation.

Reversible reactions are those in which products can recombine to form reactants. Roasting is heating of concentrated ore in a furnace in the presence of air.

Salt is defined as an ionic compound composed of a metallic cation and non

Saturated hydrocarbon is compound in which all the four valencies of carbon atoms are fully satisfied (saturated) by single bonds with other carbon atoms and hydrogen

Secondary pollutants are produced by the various reactions of primary pollutants with

Smelting is the further heating of the roasted ore, flux of sand and coke in a blast furnace in the presence of excess of air.

Soft Water is that produces good lather with

Stratosphere region covers the atmosphere from 12 to about 50 kilometres.

Strong acids and bases are those that can ionize completely.

Substitution reaction in which one or more hydrogen atoms of a saturated compound are replaced with some other atoms (like halogen).

Temporary hardness is because of presence of bicarbonates of calcium and magnesium.

Thermosphere lies beyond mesosphere. In this region temperature rises gradually.

Troposphere is just above the Earth's surface and extends upto 12 kilometres.

Unsaturated hydrocarbon are compounds in which the two carbon atoms are linked by a double or a triple bond.

Water borne diseases are caused by drinking polluted water or eating food prepared with polluted water.

Water softening is removal of hard water lons (Mg2+, Ca2+).

Weak acids and bases are those which ionize partially in water.

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